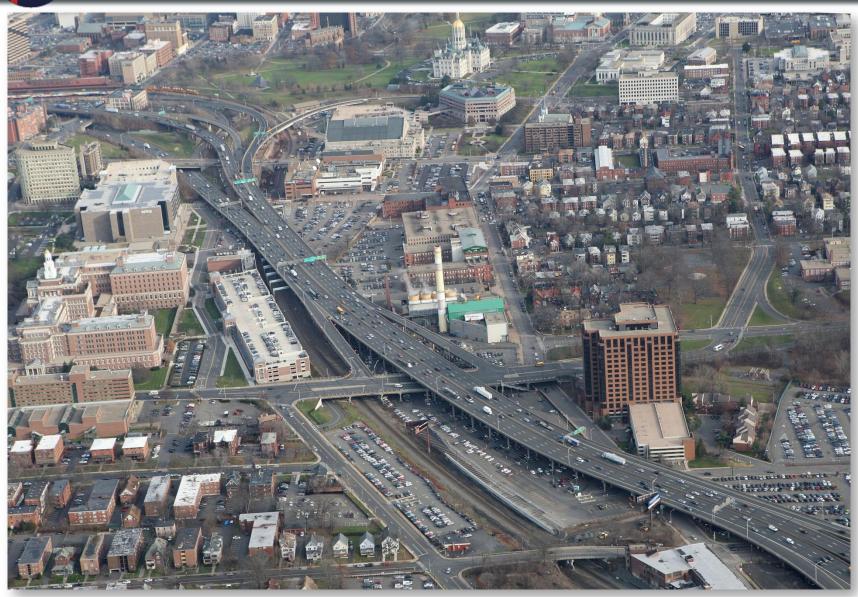


I-84 HARTFORD PROJECT

Open Planning Studio #5 Presentation

November 16, 2015

State Project Number: 63-644

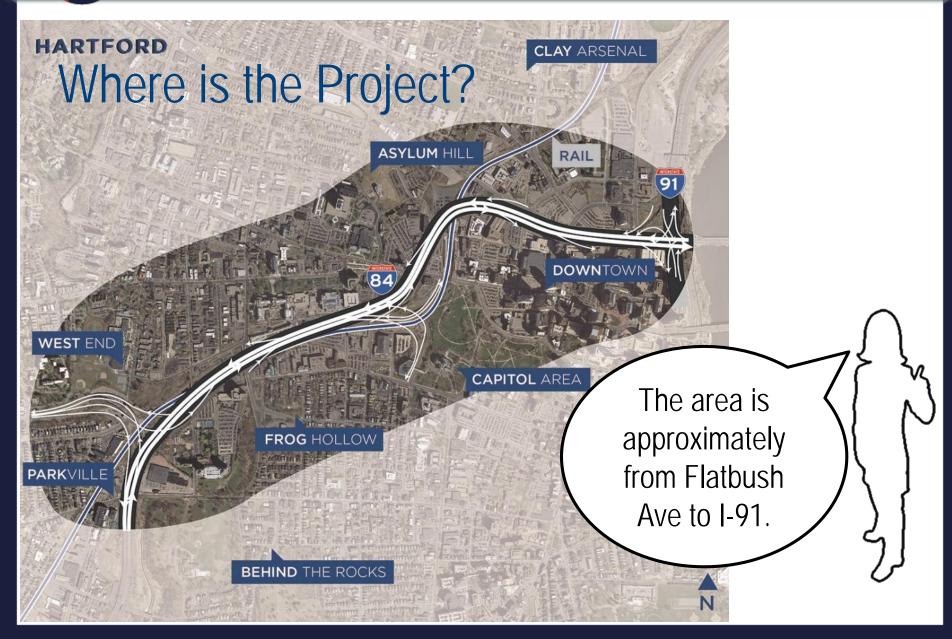


Presentation Overview

- 1. What is the I-84 Hartford project?
- 2. Lowered highway possibilities (west)
- 3. Lowered highway possibilities (east)
- 4. Construction considerations
- 5. Learn more/provide input

Hello. Please allow me to tell you more about today's event.





I-84 Project Background

- Rail line built in 1830s
- Opened 1969; elevated to avoid impacting rail line
- Designed for 55,000 vehicles/day (Asylum Avenue area)
- Carries 175,000 vehicles/day (Asylum Avenue area)

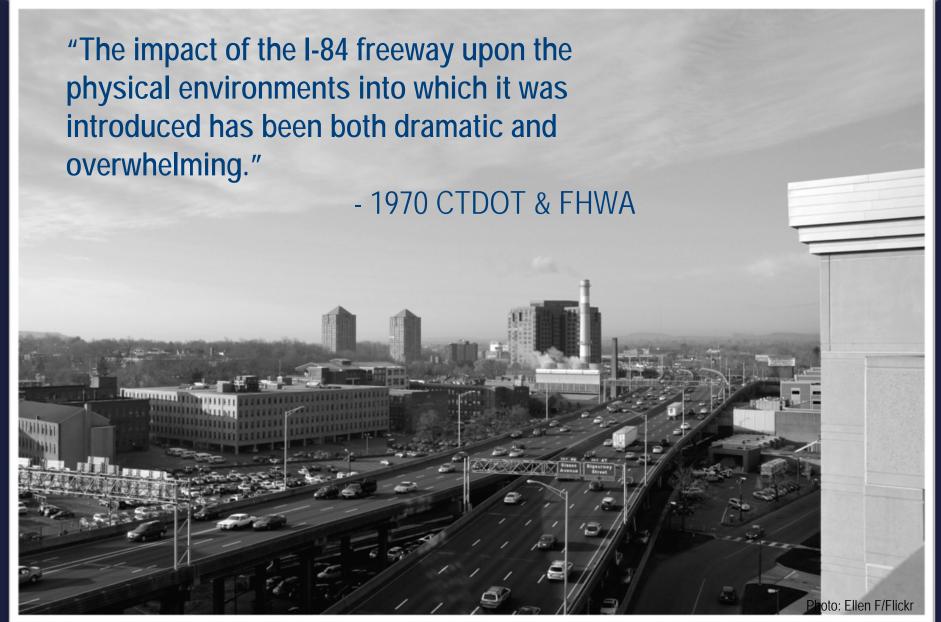
These aerials show In 84's footprint and profound shift in development patterns after it was built.







I-84 HARTFORD PROJECT



Why Is It Needed?

- 1. Bridge Deficiencies
 - Reaching end of lifespan
 - \$60M since 2004
 - Additional \$60M over next 5 years
 - Bridges are safe; deterioration will continue

There are three major reasons why we're doing this project. The first is bridge deficiencies.







Why Is It Needed?

- 2. Operations and Safety
 - Eight full/partial interchanges
 - Weaves/lane drops
 - Sharp curves
 - High crash rates





Why Is It Needed?

- 3. Mobility: Moving People and Goods
- Freight volumes above national average
- Complete streets: improve pedestrian and bicyclist connections
- Transit and parking accommodations







Mainline Alternatives

- Alternative 1: No Build Green
- Alternative 2 (elevated)
 Blue
- Alternative 3 (lowered) Yellow

Sigourney Street

Alternative 4 (tunnel) Brown

The number of each alternative relates to its vertical profile elevation.

Broad Street

Asylum Street

Ann Uccello Street

Tunnel

High Street

Park Street

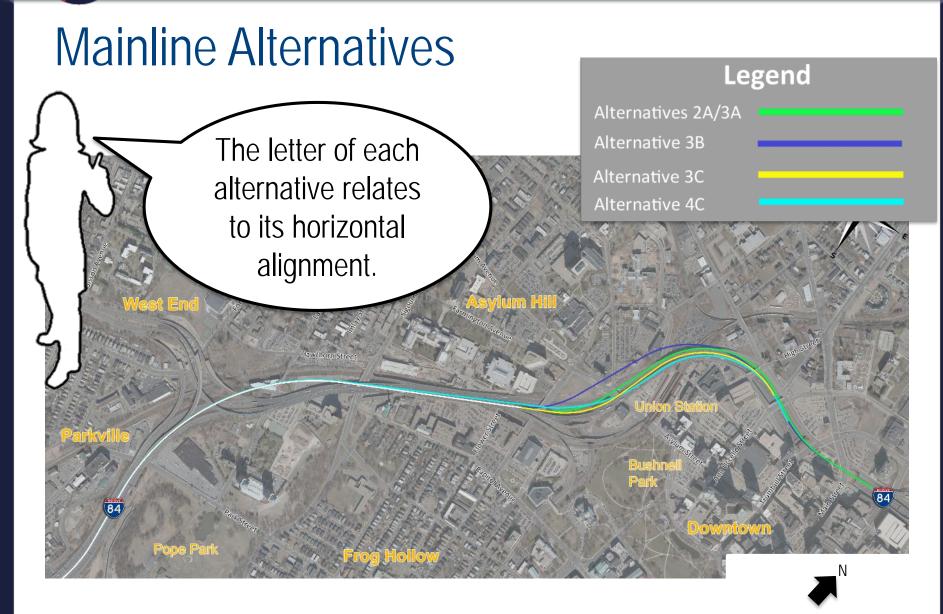
Exit 46 WB Off-Ramp

Exit 46 EB On-Ramp

North Branch of Park River Conduit

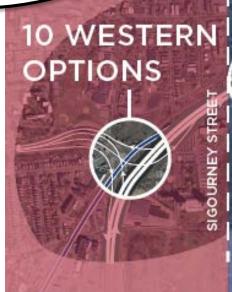
Park River Conduit

Gully Brook Conduit



Various Ramp Options

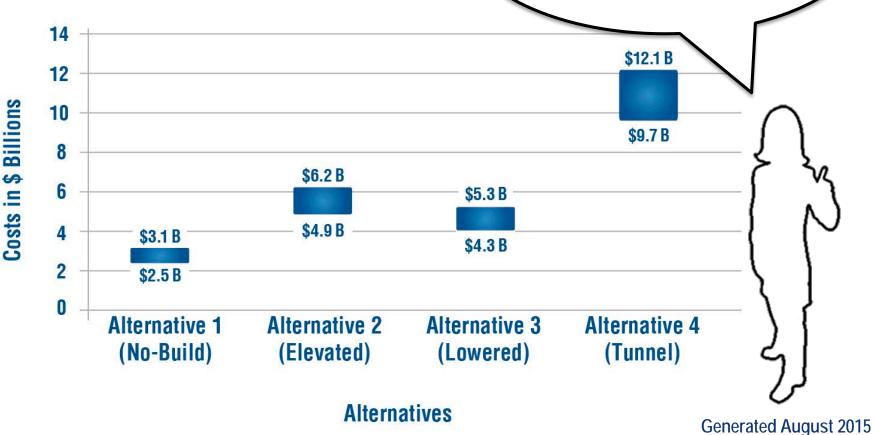
The alternatives are further defined by interchange options to the east and west of Sigourney Street.



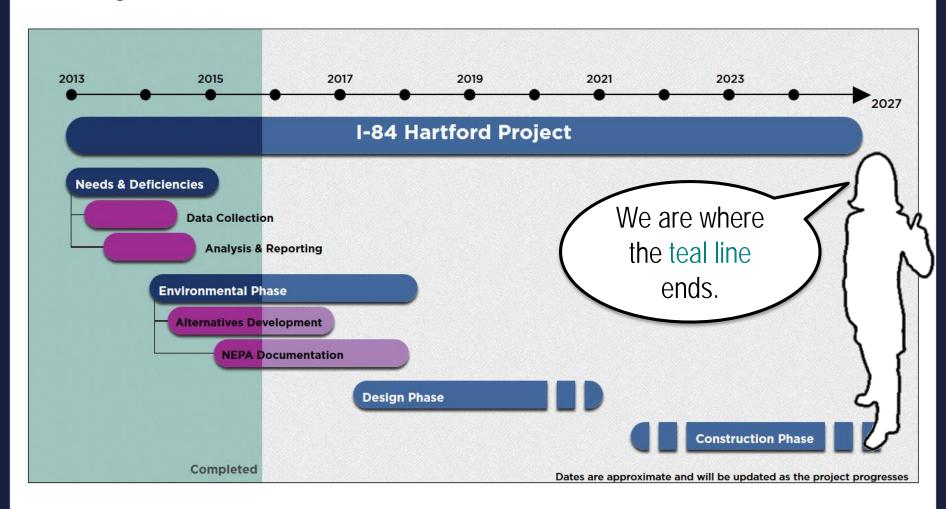


Cost Estimates

The estimates are represented in future dollars to the mid-point of construction.



Project Schedule



Preliminary Traffic Analyses

Perform I-84 mainline analysis

Analyze local road intersections

We are working hard to understand traffic flow on the highway and city streets.



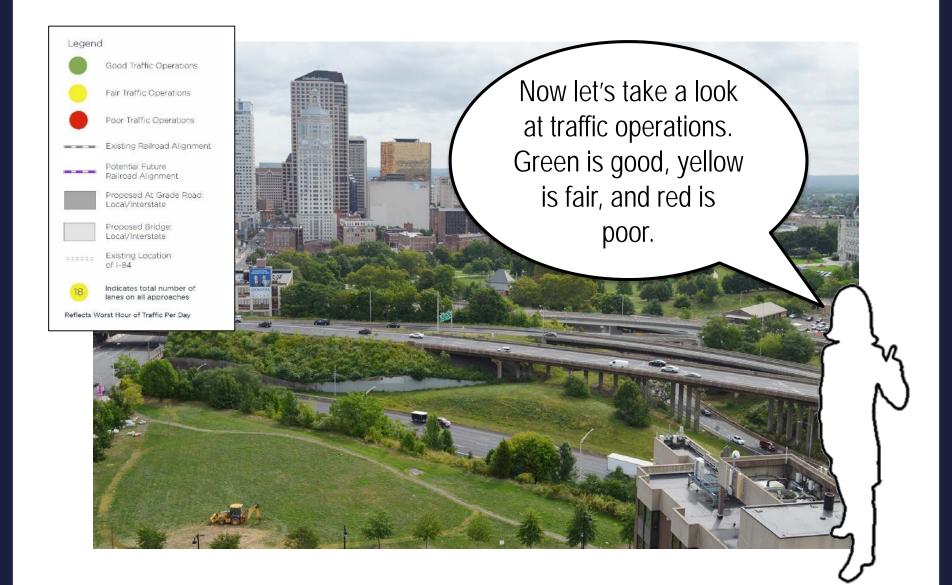


Bicycle/Pedestrian Considerations

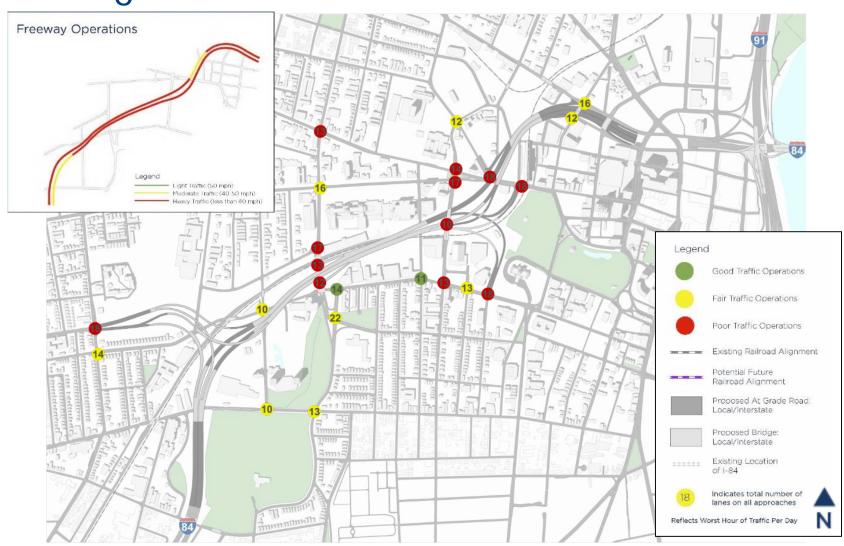
- Collect information/usage patterns
- Incorporate data into the traffic model
- Continue to meet with stakeholders/users
- Balancing lanes with walkability/bike usage



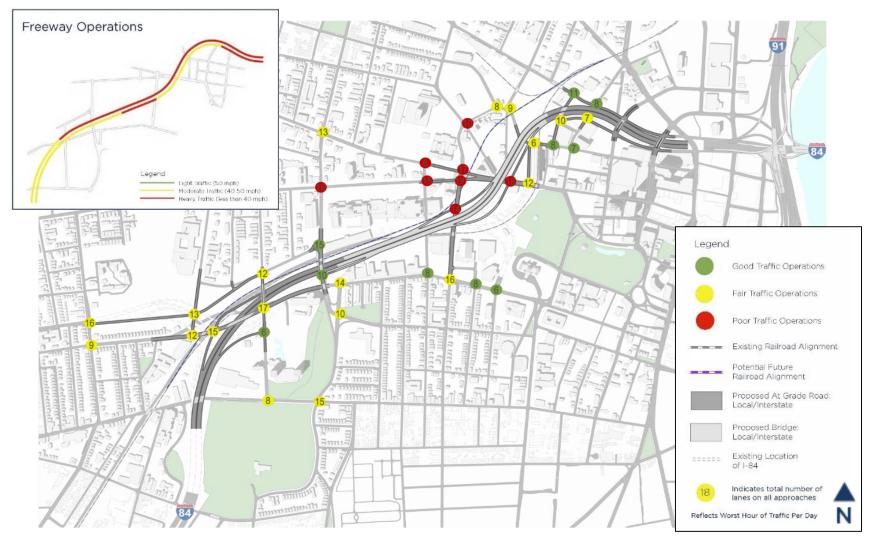




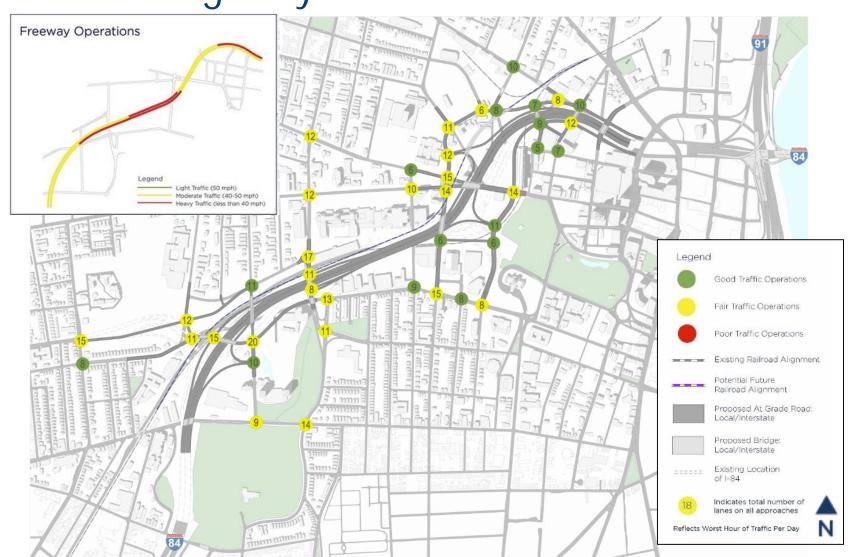
Existing Conditions



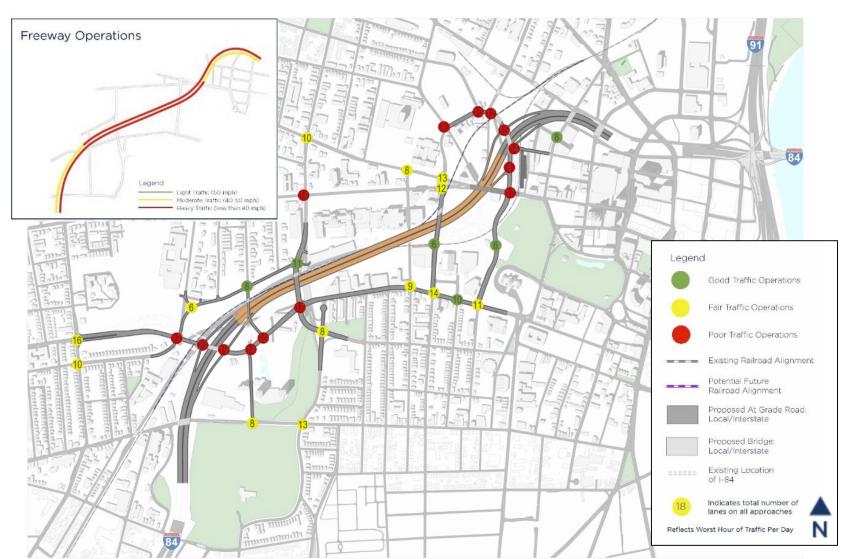
Elevated Highway



Lowered Highway



Tunnel



Mainline Analysis Tells Us:

- Interchange spacing affects the mainline
- Poor intersections affect the mainline





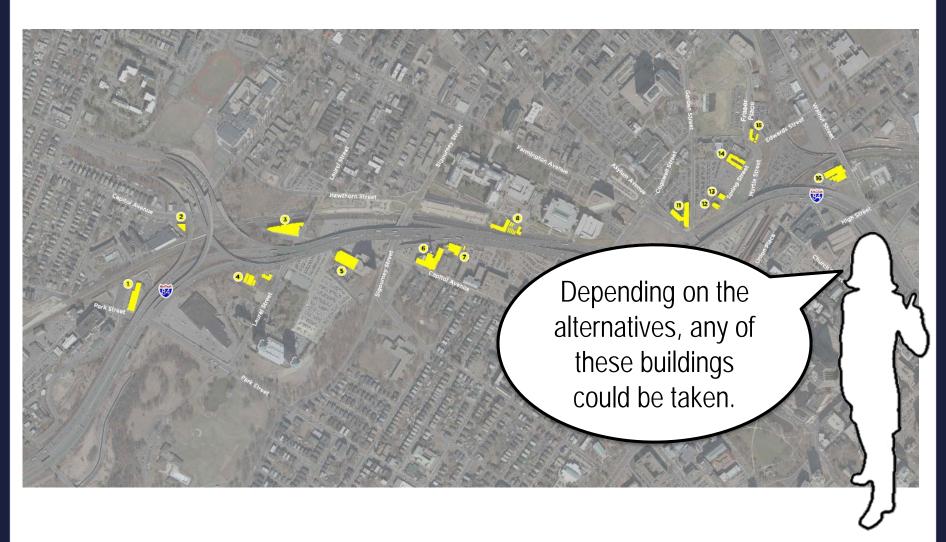
Intersection Analysis Tells Us:

- Keep Sigourney Street ramps
- Create new roads to add redundancy
- Better mainline operations = improve intersections
- More walkable/bikeable corridors can be achieved





Potential Building Impacts



Potential Building Impacts (West)



Potential Building Impacts (East)





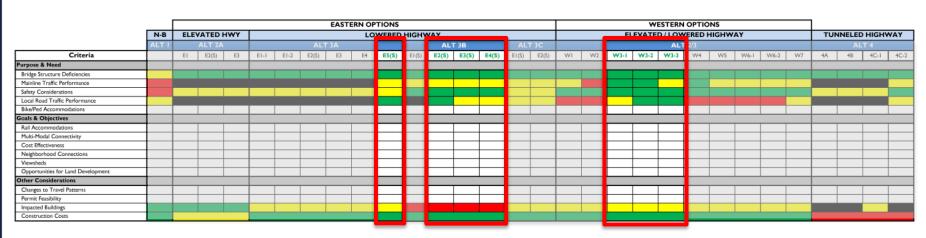
Initial Analysis Shows...

		EASTERN OPTIONS											WESTERN OPTIONS																	
	N-B	ELE	VATED	HWY		LOWERED HIGHWAY										ELEVATED / LOWERED HIGHWAY									TUNNELED HIGHWAY					
	ALT I	I ALT 2A			ALT 3A					ALT 3B				ALT	T 3C		ALT 2/3							ALT 4						
Criteria		EI	E2(S)	E3	EI-I	EI-2	E2(S)	E3	E4	E5(S)	EI(S)	E2(S)	E3(S)	E4(S)	EI(S)	E2(S)	WI	W2	W3-I	W3-2	W3-3	W4	W5	W6-I	W6-2	W7	4A	4B	4C-I	4C-2
Purpose & Need																														
Bridge Structure Deficiencies																														
Mainline Traffic Performance																														
Safety Considerations																														
Local Road Traffic Performance																														
Bike/Ped Accommodations																														
Goals & Objectives																														
Rail Accommodations																														
Multi-Modal Connectivity																														
Cost Effectiveness																														
Neighborhood Connections																														
Viewsheds																														
Opportunities for Land Development																														
Other Considerations																														
Changes to Travel Patterns																														
Permit Feasibility																														
Impacted Buildings																														
Construction Costs																														

Other Considerations							
Good							
Fair							
Poor							
Critical Flaw							
More Analysis Needed							

Alternatives heavy on green are performing well. Those heavy on red or black are not.

Initial Analysis Shows...



- Some lowered highway options perform well
 - Relocated railroad creates interchange opportunities
 - New roadways create redundancy in network
- Additional building impacts



Options That Perform Well (West)

Alternative 3A/3B: Option W3-1



Alternative 3A/3B: Option W3-2



Alternative 3A/3B: Option W3-3





Existing Conditions (West)





Existing Mainline and Ramps (West)







Option W3-3

Proposed Mainline and Ramps Here's an example of a western option that's performing well. POPE PARK





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Option W3-3

Proposed New Local Roads





I-84 HARTFORD PROJECT

Option W3-3

Proposed Roadway Layout









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Option W3-3

Potentially Available Land (~15 acres)



Preliminary





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Option W3-3

Potentially Impacted Buildings









Option W3-3

Potential Complete Streets







Sisson Ramps

Existing Aerial View Looking North



Sisson Ramps

Potential Aerial View Looking North



Realigned Capitol Avenue

Existing Street View Looking East



Realigned Capitol Avenue

Potential Street View Looking East







Options That Perform Well (East)

Alternative 3A: Option E5 (S)



Alternative 3B: Option E3 (S)



Alternative 3B: Option E2 (S)



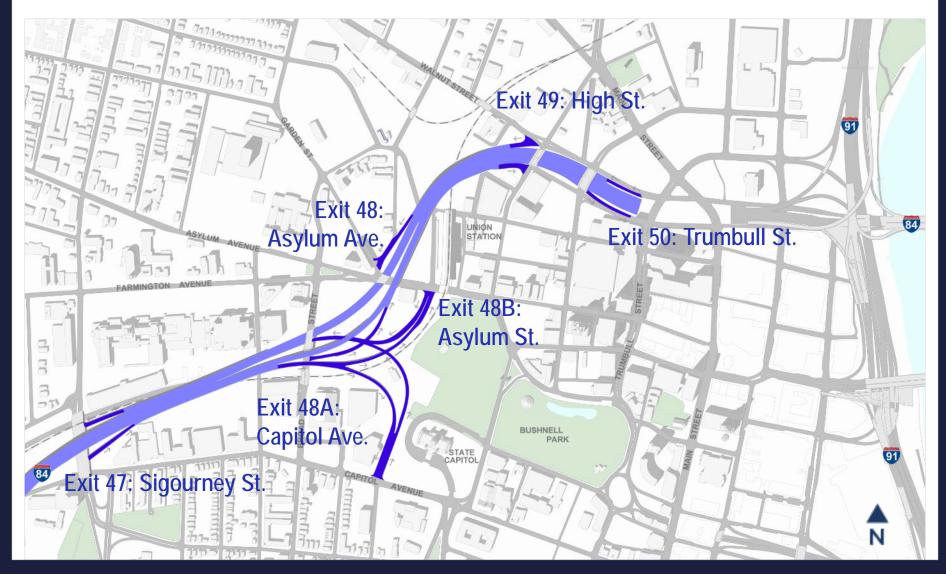
Alternative 3B: Option E4 (S)



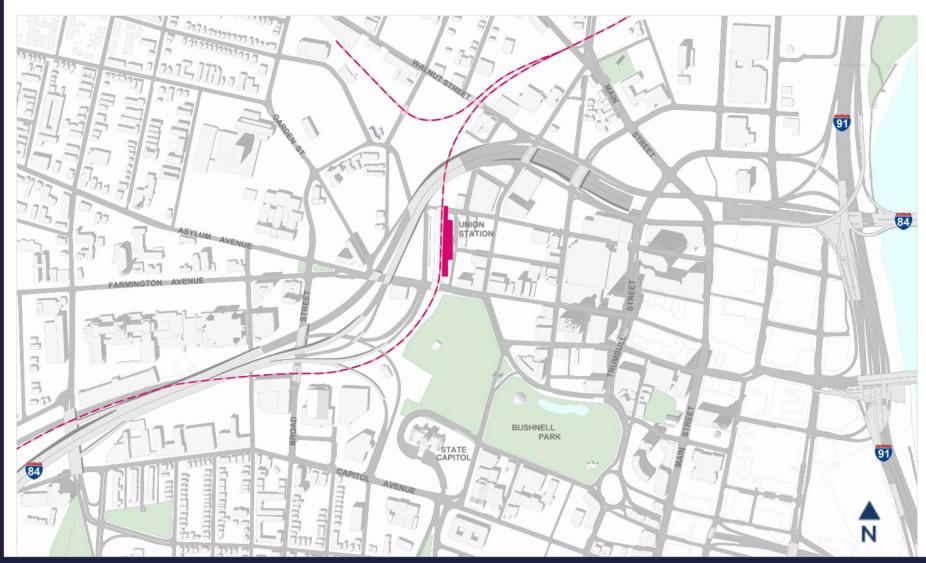
Existing Conditions (East)



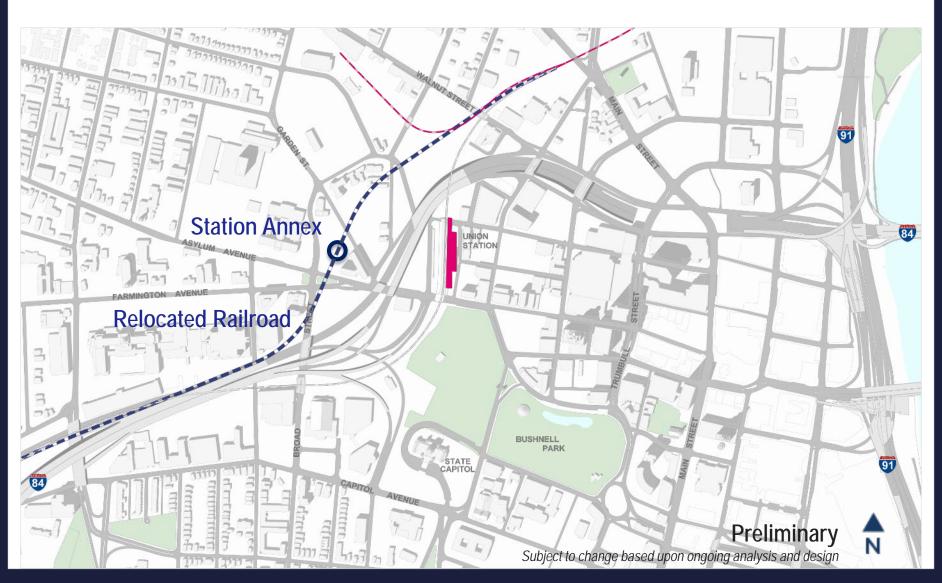
Existing Mainline and Ramps (East)

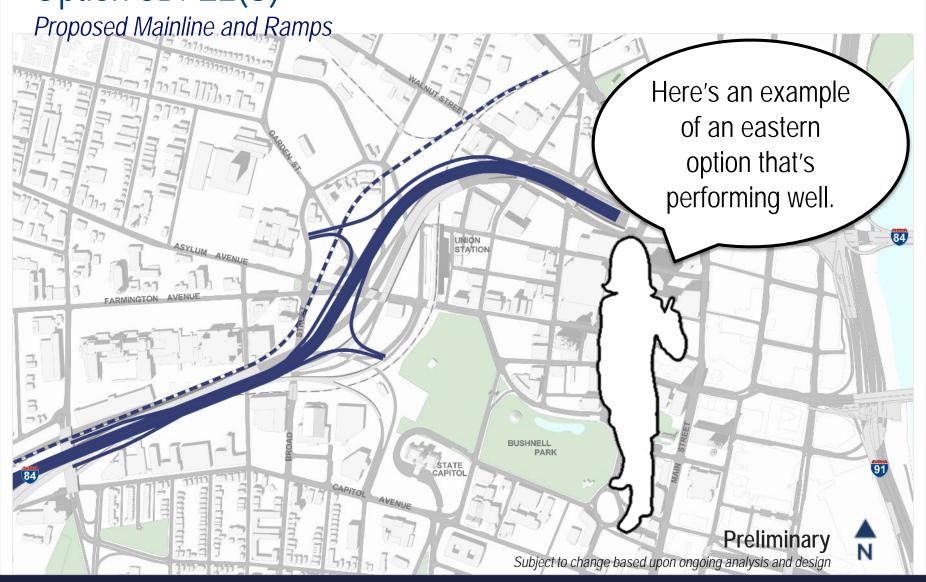


Existing Railroad (East)



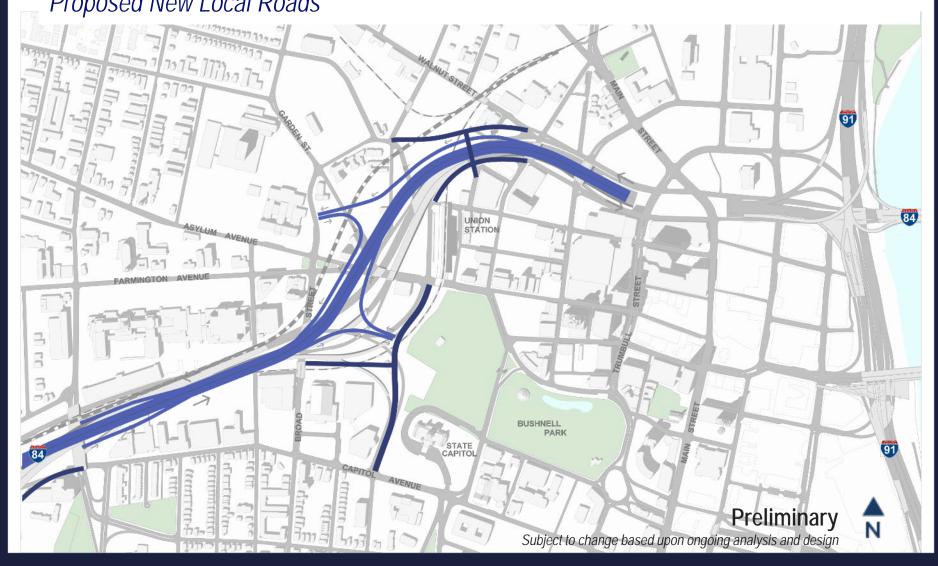
Relocated Railroad and New Station Annex



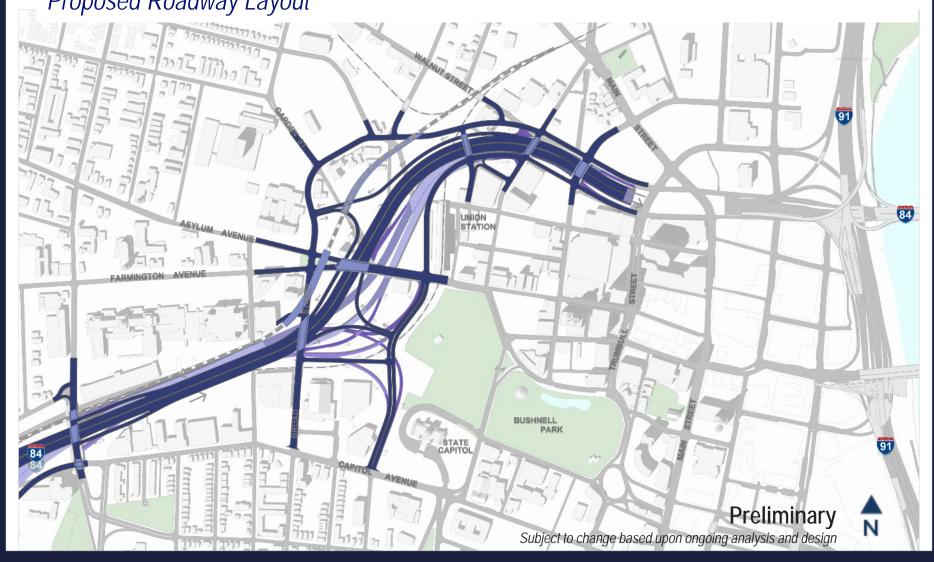




Proposed New Local Roads

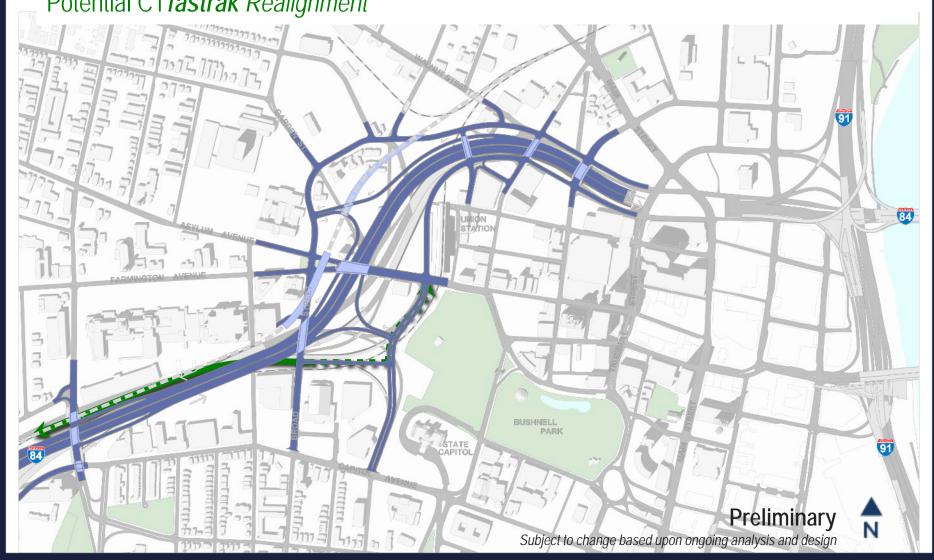


Proposed Roadway Layout





Potential CT*fastrak Realignment*



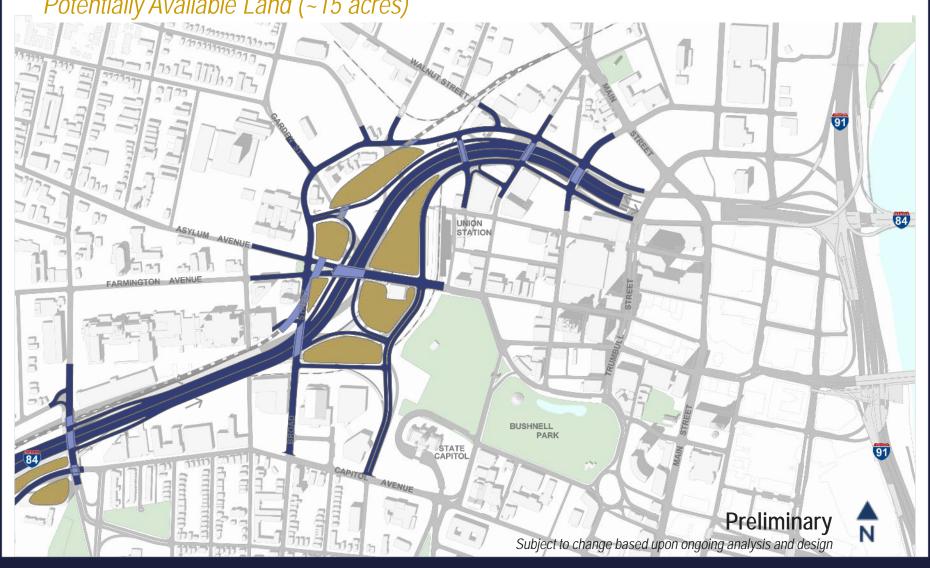


Potentially Impacted Buildings





Potentially Available Land (~15 acres)





Potential Complete Streets Reuse Rail Viaduct **Exploring** Potential 'High Line' Flower St. Reconnection **Linking Union Station to East Coast Greenway** BUSHNELL STATE Coast Greenway CONCEPTUAL - FOR ILLUSTRATIVE PURPOSES ONLY

Subject to change based upon ongoing analysis and design

Asylum Avenue

Existing View Looking East Toward Downtown

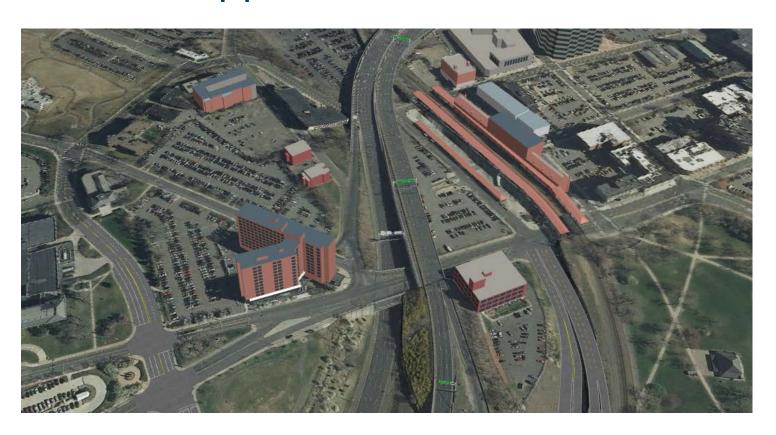


Asylum Avenue

Potential View Looking East Toward Downtown



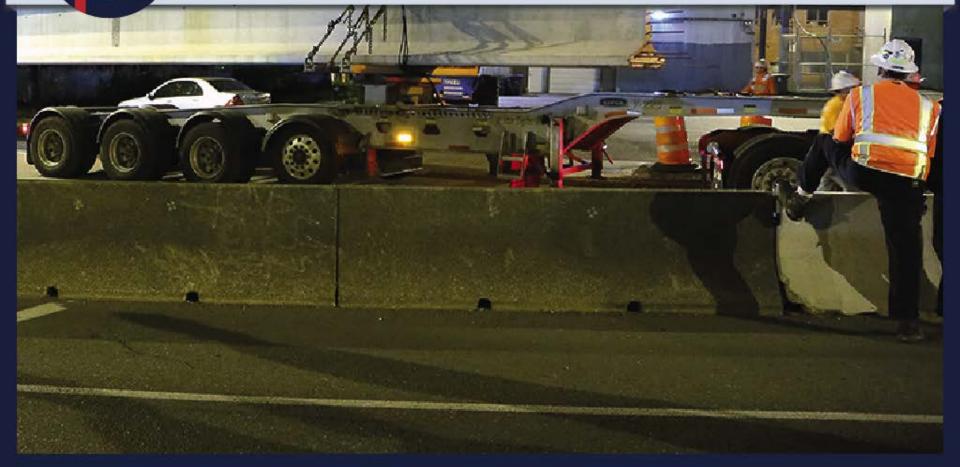
Intermodal Opportunities



Intermodal Opportunities







Construction Considerations

- Impact upon stakeholders
- Maintaining traffic affects type of construction
- Conventional vs. accelerated techniques
- Section or lane closures

Conventional construction methods maintain traffic but typically take a long time.



Reducing Traffic During Construction

- Promote transit options
- Free/reduced fares?
- Carpooling / rideshare
- Other (e.g. bicycling)

How might we manage traffic to expedite construction?











Visit our Interactive Alternatives Webpage

- View and assess the alternatives
- Provide feedback, ask questions
- i84hartford.com

We continue to test how well each alternative performs from a mobility perspective.



OPEN PLANNING STUDI

View materials from our August 12th event.

INTERACTIVE ALTERNATIVES
ANALYSIS

HARTFORD TIMELINE

Read a brief history of transportation in Hartford.

RELATED PROJECTS

View map and descriptions of other projects related to I-84.

3D INTERACTIVE MODEL

Explore the project area.

Public Input Is Crucial!

With your help, we would like to narrow down the number of options for further consideration

Submit a comment at this meeting, or at i84hartford.com!



